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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/575,310

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Rolf Dupper

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EXAMINER

GARCIA, CARLOS E

ART UNIT

PAPER NUMBER

2627

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/575,310	<b>Applicant(s)</b> DUPPER ET AL.	
	<b>Examiner</b> CARLOS E. GARCIA	<b>Art Unit</b> 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/11/2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. ____.                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/07/2005</u> .  | 6) <input type="checkbox"/> Other: ____.                          |

## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “reference areas” of claims 7 and 8 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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3. Claims 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 8 both include “first and second reference areas” which are not described in the specification and therefore the meaning is unclear. These terms are given the broadest interpretation.

Additionally, claim 8, line 5 includes the phrase “which cannot be set of the turntable” and line 12, “which can be set of the turntable”. The examiner does not completely understand the purpose of this limitation. Further clarification is required.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Bierhoff (US 6,802,072).

Re claim 1: Bierhoff discloses a turntable for a drive for storage media in disc form (as shown in Figs.1-2), with a bore 8 for receiving a motor shaft 12 of a drive motor 11, wherein the diameter of the bore is greater (diameters of bores as shown in Fig.1, must be greater than at least a region of the motor shaft in order to allow the entrance of such as shaft 12), at least in a partial region of the bore, than the diameter of the motor shaft (see Fig.1), so that there is a gap 15 between the wall of the bore and the motor shaft (as

shown in Fig.1), and the inclination and/or the position of the turntable can be set in relation to an axis of rotation of the motor shaft (the position of the turntable is set to be coaxial to the axis of rotation of the motor shaft, this is inherent in the art) (see col.3, lines 23-53).

Re claim 2: Bierhoff further discloses the bore is substantially cylindrical (as shown in Fig.1).

Re claim 3: Bierhoff further discloses the bore has an annular constriction, the diameter of which corresponds substantially to the diameter of the motor shaft (as shown in Fig.1 sections 9 and 10 which have a diameter corresponding to the diameter of the shaft 12).

Re claim 4: Bierhoff further discloses the bore is substantially conical (as shown in Fig.1; the bore structure is substantially conical in shape).

Re claim 5: Bierhoff further discloses the diameter of the bore at the narrowest point of the bore corresponds substantially to the diameter of the motor shaft (as shown in Fig.1; at the top portion of structure 2, surface 10 is the narrowest section which has a diameter corresponding to the diameter of the shaft 12).

Re claim 9: Bierhoff further discloses having a turntable as set forth above with respect to claim 1 and further including a device for reading from and/or writing to recording media in disc form (see col.4, lines 24-28).

6. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamatani (US 4,723,648).

Re claims 1 and 6: Hamatani discloses a turntable for a drive for storage media in disc form (as shown in Figs.2), with a bore 24e for receiving a motor shaft 20 of a drive motor (drive motors are used to rotate shafts), wherein the diameter of the bore is greater (diameters of bores as shown in Fig.2, must be greater than at least a region of the motor shaft in order to allow the entrance of such as shaft 20), at least in a partial region of the bore, than the diameter of the motor shaft (see Fig.2), so that there is a gap (there must exist a small gap between the wall of the bore 24e and the shaft 20 to allow for entry of shaft 20) between the wall of the bore and the motor shaft (as shown in Fig.2), and wherein the turntable comprises two or more parts (as shown in Figs.2 and 3; parts 24 and 25) so that there is a gap between the parts (the gap between members 24 and 25 is shown in Fig.3 as the spacing between the outer diameter of 24 and inner diameter of 25) and the inclination and/or the position of at least one of the parts of the turntable can be set in relation to an axis of rotation of the motor shaft (the position of the turntable is set to be coaxial to the axis of rotation of the motor shaft, this is inherent in the art) (see col.2, lines 15-30, 46-58).

Re claim 2: Hamatani further discloses the bore is substantially cylindrical (as shown in Fig.3).

Re claim 3: Hamatani further discloses the bore has an annular constriction, the diameter of which corresponds substantially to the diameter of the motor shaft (as shown in Fig.2; the top end or tip portion of bore 24e is an annular constriction which houses the tip diameter of the shaft 20).

Re claim 4: Hamatani further discloses the bore is substantially conical (as shown in Fig.3; the bore structure is substantially conical in shape).

Re claim 5: Hamatani further discloses the diameter of the bore at the narrowest point of the bore corresponds substantially to the diameter of the motor shaft (as shown in Fig.3 and as discussed above).

Re claims 7 and 8: Both method claims are rejected for the same reasons as above.

Furthermore, the steps of positioning the motor shaft a defined position with the aid of a first reference area (is shown in Fig.3; the shaft 20 is positioned by using the area of section 24e), introducing the motor shaft into the bore of the turntable (as shown in Fig.3), setting the inclination and/or the position of the turntable in relation to the motor shaft with the aid of a second reference area (as shown in Fig.3; the position of the

turntable can be fitted in relation to the top surface of member 23), and fixing the motor shaft in the bore of the turntable (as shown in Fig.2; the shaft is fitted into the bore).

Additionally, the steps of mounting the parts which cannot be set of the turntable on the motor shaft (as shown in Fig.2; member 24 is fitted together to form a turntable structure not directly placed on the shaft 20), fixing the part which can be set of the turntable on the motor shaft and/or the parts which cannot be set of the turntable (as shown in Fig.2; member 25 is set on the shaft 20).

Re claim 9: Hamatani further discloses having a turntable as set forth above with respect to claim 1 and further including a device for reading from and/or writing to recording media in disc form (see col.2, lines 57-58; an operating head 27 can be used to read from and/or write to the medium 26).

### ***Conclusion***

7. The prior art made of record in PTO-892 Form and not relied upon is considered pertinent to applicant's disclosure.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos E. Garcia whose telephone number is 571-270-1354. The examiner can normally be reached on 8:30 am to 5:00 pm, Monday thru Thursday and 8:30 to 4:00 pm, Fridays. If attempts to reach the examiner by telephone are unsuccessful, the



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examiner's supervisor, Andrea Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Carlos E. Garcia

3/20/2008

/Andrea L Wellington/  
Supervisory Patent Examiner, Art Unit 2627